

Logging Dublin M1 Release Planning

DRAFT PROPOSAL FOR COMMENTS

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Overview

Logging	Logging
Target Release Name	Dublin
Project Lifecycle State	Mature. Refer to ONAP Charter, section 3.3 Project Lifecycle for further information
Participating Company	Amdocs, AT&T

Scope

What is this release trying to address?

Logging related collection, shipping, indexing, storage, searching, display. And S3P performance, scaling, resiliency of the ELK stack and filebeat infrastructure.

Implementation of the marker/MDC related specification finalized in Casablanca

Additional stretch goals is a pluggable common ELK chart, prometheus integration

Adjusting the POMBA audit API.

Use Cases

Log collection and triage of any ONAP supported use case transaction for vFW, vDNS, vVOLTE or vCPE

(POMBA) audit of any of the above use case transactions for the purposes of out of band model based audit.

Minimum Viable Product

ELK + Prometheus stack functions

POMBA stack functions

Functionalities

List the functionalities that this release is committing to deliver by providing a link to JIRA Epics and Stories. In the JIRA Priority field, specify the priority (either High, Medium, Low). The priority will be used in case de-scoping is required. Don't assign High priority to all functionalities.

Epics

Logging-analytics

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
LOG-870	Dublin Release Planning	⚡	Nov 26, 2018	Aug 12, 2023		Unassigned	None	==	CLOSED	Done
LOG-761	POMBA: Additional Resources: L2 Fabric	⚡	Oct 15, 2018	Apr 02, 2019		Unassigned	None	==	CLOSED	Done
LOG-706	Swift 4.2 logging support	⚡	Sep 27, 2018	May 20, 2019		Unassigned	None	==	CLOSED	Done
LOG-650	POMBA: address sdnc-context-builder jenkins job failures by M4	⚡	Sep 13, 2018	Aug 12, 2023		Unassigned	None	==	CLOSED	Done
LOG-609	POMBA aai/validation jenkins artifacts for AAI and CIMAN	⚡	Aug 15, 2018	Apr 04, 2019		Unassigned	None	==	CLOSED	Done
LOG-514	POMBA : Security and Performance Enhancements	⚡	Jun 26, 2018	Aug 12, 2023		Unassigned	None	⏚	CLOSED	Done
LOG-500	Machine Learning on ONAP Logs - streamed and bulk ML processing	⚡	Jun 22, 2018	Aug 12, 2023		Unassigned	None	==	CLOSED	Done
LOG-495	Logging committer contribution agreements to sign	⚡	Jun 22, 2018	Aug 12, 2023		Unassigned	None	==	CLOSED	Done
LOG-468	Casablanca Release Planning	⚡	Jun 08, 2018	Aug 12, 2023		Unassigned	None	==	CLOSED	Done
LOG-463	Dublin release documentation	⚡	Jun 07, 2018	Aug 12, 2023		Unassigned	None	==	CLOSED	Done
LOG-394	POMBA: Logging and Manageability Enhancements	⚡	May 14, 2018	Apr 02, 2019		Unassigned	None	⏚	CLOSED	Done
LOG-393	POMBA: Data Dictionary in Validation	⚡	May 14, 2018	May 20, 2019		Unassigned	None	==	CLOSED	Done
LOG-391	POMBA: SDNC Context Builder & API Mapping Support	⚡	May 14, 2018	Apr 04, 2019		Unassigned	None	⏚	CLOSED	Done
LOG-370	Kubernetes DevOps Nexus /Jenkins/Gitlab/Kibana /Elasticsearch/ helm chart infrastructure	⚡	Apr 21, 2018	May 20, 2019		Unassigned	None	==	CLOSED	Done
LOG-300	CD: OOM framework for continuous E2E deploy validation of tagged commit /merge trigger docker snapshots	⚡	Dec 08, 2017	Aug 12, 2023		Unassigned	None	⏏	CLOSED	Done

LOG-253	Review Filebeat across Casablanca in prep of Dublin - 46 containers		May 05, 2018	May 20, 2019	Unassigned	None	=	CLOSED	Done
LOG-158	VNF Logging		Jan 23, 2018	Aug 12, 2023	Unassigned	None	=	CLOSED	Done
LOG-115	Logging RI - SLF4J		Dec 20, 2017	Aug 12, 2023	Unassigned	None	=	CLOSED	Won't Do

18 issues

POMBA

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
SDNC-419	Network Discovery Enhancements		Aug 07, 2018	Apr 05, 2019		Unassigned	None	=	CLOSED	Done
LOG-761	POMBA: Additional Resources: L2 Fabric		Oct 15, 2018	Apr 02, 2019		Unassigned	None	=	CLOSED	Done
LOG-650	POMBA: address sdnc-context-builder jenkins job failures by M4		Sep 13, 2018	Aug 12, 2023		Unassigned	None	=	CLOSED	Done
LOG-609	POMBA aai/validation jenkins artifacts for AAI and CIMAN		Aug 15, 2018	Apr 04, 2019		Unassigned	None	=	CLOSED	Done
LOG-514	POMBA : Security and Performance Enhancements		Jun 26, 2018	Aug 12, 2023		Unassigned	None	>	CLOSED	Done
LOG-394	POMBA: Logging and Manageability Enhancements		May 14, 2018	Apr 02, 2019		Unassigned	None	>	CLOSED	Done
LOG-393	POMBA: Data Dictionary in Validation		May 14, 2018	May 20, 2019		Unassigned	None	=	CLOSED	Done
LOG-391	POMBA: SDNC Context Builder & API Mapping Support		May 14, 2018	Apr 04, 2019		Unassigned	None	>	CLOSED	Done

8 issues

Stories

Logging-analytics

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
LOG-945	Common ONAP Logstash Artifacts		Jul 04, 2018	Dec 09, 2021		Unassigned	None	=	CLOSED	Won't Do
LOG-944	Common ONAP kibana Artifacts		Jul 04, 2018	Dec 09, 2021		Unassigned	None	=	CLOSED	Won't Do
LOG-943	Common ONAP Elasticstack Artifacts		Jul 04, 2018	Aug 12, 2023		Unassigned	None	<	CLOSED	Won't Do
LOG-941	Investigate tetrate for service discovery and the impact on logging		Jan 22, 2019	Dec 09, 2021		Unassigned	None	=	CLOSED	Won't Do
LOG-940	ONS NA 2019 April conference prep - K8S /Prometheus/AWS-VPC-CNI		Jan 22, 2019	Jun 06, 2019		Unassigned	None	=	CLOSED	Done

LOG-938	POMBA: Cheap and cheerful Openstack Network Discovery Robustness		Jan 21, 2019	Aug 12, 2023	Unassigned	None	=	CLOSED	Done
LOG-937	POMBA: Cheap and cheerful : continue after error from context builder		Jan 21, 2019	Aug 12, 2023	Unassigned	None	=	CLOSED	Done
LOG-912	COMSEC compliance for logging RI		Jan 03, 2019	Dec 09, 2021	Unassigned	None	=	CLOSED	Won't Do
LOG-902	CLAMP logs missing/mis-configured or not generated		Dec 12, 2018	Aug 12, 2023	Unassigned	None	=	CLOSED	Won't Do
LOG-899	ONAP vFW vFirewall Use Case validation - so we can use it for transaction tracing		Dec 08, 2018	Aug 12, 2023	Unassigned	None	=	CLOSED	Won't Do
LOG-898	ONAP Deployment Resiliency changes to deploy without POD failures		Dec 08, 2018	Aug 12, 2023	Unassigned	None	>	CLOSED	Won't Do
LOG-895	Upgrade Rancher to 1.6.25 to address CVE-2018-1002105 and move to Kubernetes 1.11.5 (server side)		Dec 06, 2018	Jul 10, 2019	Unassigned	None	=	CLOSED	Done
LOG-889	OOM common logstash overrides - like log-ls:5044 service/port names		Dec 02, 2018	Aug 12, 2023	Unassigned	None	=	CLOSED	Won't Do
LOG-877	S3P: Logging streaming /format alignment for dublin - China Telecom, Deutsche Telekom, Vodafone		Nov 28, 2018	Aug 12, 2023	Unassigned	None	>>	CLOSED	Won't Do
LOG-876	S3P: Logging for Core Service/VNF state and transition model - Deutsche Telekom and Vodafone		Nov 28, 2018	Aug 12, 2023	Unassigned	None	>	CLOSED	Won't Do

15 issues

POMBA

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
SDNC-543	HTTPS Support for Network Discovery Micorservice - secure or remove asynchronous response		Dec 05, 2018	Jan 15, 2019		Unassigned	None	>	CLOSED	Done
SDNC-375	HTTPS Support for Network Discovery Micorservice		Jul 10, 2018	Aug 12, 2023		Unassigned	None	>	CLOSED	Done
LOG-1050	POMBA: Release/Revert 4 (now 2) remaining POMBA SNAPSHOT/STAGING images		May 13, 2019	May 16, 2019		Unassigned	None	>	CLOSED	Done
LOG-984	Logging/POMBA Dublin M3 Arch review wiki/meet		Feb 21, 2019	May 20, 2019		Unassigned	None	>	CLOSED	Done
LOG-959	Attribute comparison rule: P-Interface		Feb 04, 2019	Aug 12, 2023		Unassigned	None	=	CLOSED	Done
LOG-958	Attribute comparison rule: PNF		Feb 04, 2019	Aug 12, 2023		Unassigned	None	=	CLOSED	Done
LOG-957	Attribute comparison rule: network		Feb 04, 2019	Aug 12, 2023		Unassigned	None	=	CLOSED	Done
LOG-938	POMBA: Cheap and cheerful Openstack Network Discovery Robustness		Jan 21, 2019	Aug 12, 2023		Unassigned	None	=	CLOSED	Done

LOG-937	POMBA: Cheap and cheerful : continue after error from context builder		Jan 21, 2019	Aug 12, 2023	Unassigned	None	=	CLOSED	Done
LOG-780	POMBA: Common Model updates with new objects		Oct 19, 2018	Aug 12, 2023	Unassigned	None	=	CLOSED	Done
LOG-779	Rules Update for Attribute Comparison (SDNC)		Oct 19, 2018	Aug 12, 2023	Unassigned	None	=	CLOSED	Done
LOG-778	POMBA: SDNC Context Builder: pnf		Oct 18, 2018	Aug 12, 2023	Unassigned	None	=	CLOSED	Done
LOG-770	Pairwise testing for Casablanca		Oct 17, 2018	Aug 12, 2023	Unassigned	None	^	CLOSED	Done
LOG-768	POMBA: SDNC Context Builder: network		Oct 15, 2018	Aug 12, 2023	Unassigned	None	=	CLOSED	Done
LOG-767	POMBA: A&AI Context Builder: logical link		Oct 15, 2018	Aug 12, 2023	Unassigned	None	=	CLOSED	Done
LOG-766	POMBA: A&AI Context Builder: l-interface		Oct 15, 2018	Aug 12, 2023	Unassigned	None	=	CLOSED	Done
LOG-765	POMBA: A&AI Context Builder: p-interface		Oct 15, 2018	Aug 12, 2023	Unassigned	None	=	CLOSED	Done
LOG-764	POMBA: A&AI Context Builder: pnf		Oct 15, 2018	Aug 12, 2023	Unassigned	None	=	CLOSED	Done
LOG-763	POMBA: A&AI Context Builder: network		Oct 15, 2018	Aug 12, 2023	Unassigned	None	=	CLOSED	Done
LOG-762	POMBA: A&AI Context Builder: pserver		Oct 15, 2018	Aug 12, 2023	Unassigned	None	=	CLOSED	Done

Showing 20 out of 35 issues

Longer term roadmap

Indicate at a high level the longer term roadmap. This is to put things into the big perspective.

LOG-707 - Getting issue details...

STATUS

Release Deliverables

Indicate the outcome (Executable, Source Code, Library, API description, Tool, Documentation, Release Note...) of this release.

Deliverable Name	Deliverable Description
pomba jar/war/dockers	see sub-components
logging jar/war	

Sub-Components

List all sub-components part of this release.
Activities related to sub-components must be in sync with the overall release.

Sub-components are repositories and are consolidated in a single centralized place. Edit the [Release Components name for your project](#) in the centralized page.

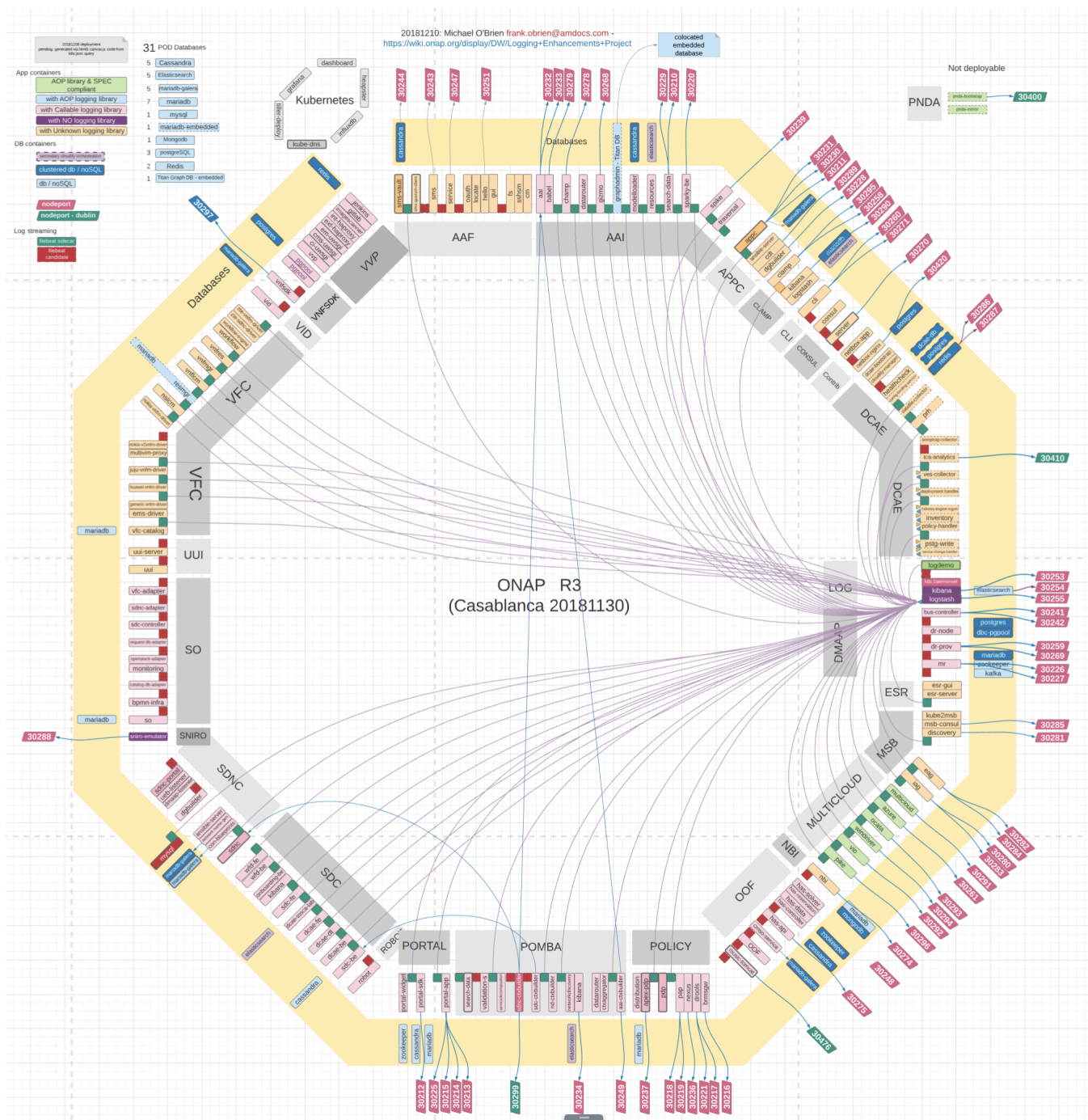
Components Name	Components Repository name	Maven Group ID	Maven Artifact ID	Java package name	Components Description

logging-analytics	logging-analytics	org.onap.logging-analytics	logging-analytics	org.onap.logging	A reference analytics pipeline configuration
pomba-context-aggregator	logging-analytics/pomba/pomba-context-aggregator	org.onap.pomba	pomba-context-aggregator	org.onap.pomba.context.aggregator	Orchestrates calls to various context builders and aggregates data from various data sources into one single payload
pomba-aai-context-builder	logging-analytics/pomba/pomba-aai-context-builder	org.onap.pomba	pomba-aai-context-builder	org.onap.pomba.contextbuilder.aai	AAI Context builder. Interacts with A&AI and transforms A&AI data into common model structure
pomba-sdc-context-builder	logging-analytics/pomba/pomba-sdc-context-builder	org.onap.pomba	pomba-sdc-context-builder	org.onap.pomba.contextbuilder.sdc	SDC Context builder. Interacts with SDC and transforms SDC TOSCA CSAR into common model structure
pomba-sdnc-context-builder	logging-analytics/pomba/pomba-sdnc-context-builder	org.onap.pomba	pomba-sdnc-context-builder	org.onap.pomba.contextbuilder.sdnc	SDN-C Context Builder. Interacts with SDN-C and transforms SDN-C data into common model structure
pomba-network-discovery-context-builder	logging-analytics/pomba/pomba-network-discovery-context-builder	org.onap.pomba	pomba-network-discovery-context-builder	org.onap.pomba.contextbuilder.networkdiscovery	Network Discovery Context Builder. Interacts with Network discovery component and transforms its data into common model structure
pomba-audit-common	logging-analytics/pomba/pomba-audit-common	org.onap.pomba	pomba-audit-common	org.onap.pomba.common.audit	POJO project. Holds POMBA common model POJO representation

Architecture

High level architecture diagram

See logging streaming filebeat sidecars all feeding into the Logging ELK stack - the containers we will be adding/re-adding are in red.



Referring to [CII Badging Security Program](#) and [Platform Maturity Requirements](#), fill out the table below by indicating the actual level , the targeted level for the current release and the evidences on how you plan to achieve the targeted level.

Area	Actual Level log /pomba	Targeted Level for current Release	How, Evidences	Comments
Performance	2/2	2/2	via k8s	0 -- none 1 – baseline performance criteria identified and measured 2 & 3 – performance improvement plans created & implemented
Stability	2/2	3/3	via k8s	0 – none 1 – 72 hours component level soak w/random transactions 2 – 72 hours platform level soak w/random transactions 3 – 6 months track record of reduced defect rate
Resiliency	2/2	2/2	via k8s	0 – none 1 – manual failure and recovery (< 30 minutes) 2 – automated detection and recovery (single site) 3 – automated detection and recovery (geo redundancy)
Security	0/1	1/1	with AAF	0 – none 1 – CII Passing badge + 50% Test Coverage 2 – CII Silver badge; internal communication encrypted; role-based access control and authorization for all calls 3 – CII Gold
Scalability	1/1	1/1	via k8s	0 – no ability to scale 1 – single site horizontal scaling 2 – geographic scaling 3 – scaling across multiple ONAP instances
Manageability	1/1	1/1	via k8s	1 – single logging system across components; instantiation in < 1 hour 2 – ability to upgrade a single component; tracing across components; externalized configuration management
Usability	1/1	1/1		1 – user guide; deployment documentation; API documentation 2 – UI consistency; usability testing; tutorial documentation

• API Incoming Dependencies

List the API this project is expecting from other projects.

Prior to Release Planning review, Team Leads must agreed on the date by which the API will be fully defined. The API Delivery date must not be later than the [release API Freeze date](#).

Prior to the delivery date, it is a good practice to organize an API review with the API consumers.

API Name	API Description	API Definition Date	API Delivery date	API Definition link (i.e.swagger)
ELK stack	Kibana, Logstash, elasticsearch REST endpoints	Since Amsterdam	1.2.2 already out in Casablanca	Active Logging Specifications

• API Outgoing Dependencies

API this project is delivering to other projects.

API Name	API Description	API Definition Date	API Delivery date	API Definition link (i.e.swagger)
POMBA Audit Initiation	API to initiate POMBA Audit	Casablanca	Casablanca	POMBA Audit Initiation Swagger

• Third Party Products Dependencies

Third Party Products mean products that are mandatory to provide services for your components. Development of new functionality in third party product may or not be expected.
List the Third Party Products (OpenStack, ODL, RabbitMQ, ElasticSearch, Crystal Reports, ...).

Name	Description	Version
To fill out	To fill out	To fill out

In case there are specific dependencies (Centos 7 vs Ubuntu 16. Etc.) list them as well.

• Testing and Integration Plans

Provide a description of the testing activities (unit test, functional test, automation,...) that will be performed by the team within the scope of this release.
Describe the plan to integrate and test the release deliverables within the overall ONAP system.
Confirm that resources have been allocated to perform such activities.

Logging-analytics

Reference Implementation is at <https://git.onap.org/logging-analytics/tree/reference> - defined by [Logging Developer Guide](#)

POMBA

[POMBA - Functional Test Cases \(Dublin\)](#)

• Gaps

This section is used to document a limitation on a functionality or platform support. We are currently aware of this limitation and it will be delivered in a future Release.
List identified release gaps (if any), and its impact.

Gaps identified	Impact
To fill out	To fill out

• Known Defects and Issues

Provide a link toward the list of all known project bugs.

Logging-analytics

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
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[No issues found](#)

POMBA

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
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[No issues found](#)

• Risks

List the risks identified for this release along with the plan to prevent the risk to occur (mitigation) and the plan of action in the case the risk would materialized (contingency).

Risk identified	Mitigation Plan	Contingency Plan
none yet	To fill out	To fill out

• Resources

Fill out [the Resources Committed to the Release](#) centralized page.

• Release Milestone

The milestones are defined at the [Release Level](#) and all the supporting project agreed to comply with these dates.

• Team Internal Milestone

This section is optional and may be used to document internal milestones within a project team or multiple project teams. For instance, in the case the team has made agreement with other team to deliver some artifacts on a certain date that are not in the release milestone, it is recommended to provide these agreements and dates in this section.

It is not expected to have a detailed project plan.

Date	Project	Deliverable
To fill out	To fill out	To fill out

• Documentation, Training

- Highlight the team contributions to the specific document related to the project (Config guide, installation guide...).
- Highlight the team contributions to the overall Release Documentation and training asset
- High level list of documentation, training and tutorials necessary to understand the release capabilities, configuration and operation.
- Documentation includes items such as:
 - Installation instructions
 - Configuration instructions
 - Developer guide
 - End User guide
 - Admin guide
 - ...



Note

The Documentation project will provide the Documentation Tool Chain to edit, configure, store and publish all Documentation asset.

Other Information

• Vendor Neutral

If this project is coming from an existing proprietary codebase, ensure that all proprietary trademarks, logos, product names, etc. have been removed. All ONAP deliverables must comply with this rule and be agnostic of any proprietary symbols.

• Free and Open Source Software

FOSS activities are critical to the delivery of the whole ONAP initiative. The information may not be fully available at Release Planning, however to avoid late refactoring, it is critical to accomplish this task as early as possible.

List all third party Free and Open Source Software used within the release and provide License type (BSD, MIT, Apache, GNU GPL,...).

In the case non Apache License are found inform immediately the TSC and the Release Manager and document your reasoning on why you believe we can use a non Apache version 2 license.

Each project must edit its project table available at [Project FOSS](#).

Charter Compliance

The project team comply with the [ONAP Charter](#).